



Chromacol Product Guide

Selection of Caps and Seals for Autosamplers

Technical Note

Vial Recognition on Waters ACQUITY UPLC™

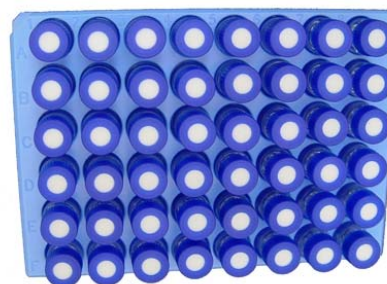
The ACQUITY is designed for UPLC and Waters recommend a number of vials and caps for use with the sample processor unit. The vials are recognized by an opto-electronic sensor, which requires the cap to register when in the sample handler tray.

Waters recommend bonded screw caps for the ACQUITY with blue being the standard colour, although red, green and white products have recently been introduced. Chromacol bonded screw caps may be used as alternatives with similar piercing and detection characteristics.

In addition to the screw caps, standard 2mL crimp top vials are included in the Waters catalogue and User Guide.

Recent feedback from users has shown that the ACQUITY often fails to recognize the crimp vials with standard aluminium caps. Although other efforts have been made to overcome the problem, the only long-term solution is the use of coloured crimp caps, in particular the blue version. This appears to only affect the vial tray options used in the ACQUITY. The 96-well plates are identified differently so they do not require individual well recognition.

Chromacol's 11-AC7(B) is ideal for this situation. Evaluation of the 11-AC(B)-ST144 also showed that that was a suitable alternative to the silicone/PTFE caps recommended by Waters. A low cost alternative is the 11-ACT(B) which may be used for single injections.



CAT PART	DESCRIPTION
CRIMP	
11-AC7(B)	11mm Aluminium Crimp Cap (Blue) Type 7 Rubber/PTFE
11-AC(B)-ST144	11mm Aluminium Crimp Cap (Blue) Silicone/PTFE Liner
11-ACT(B)	11mm Aluminium Crimp Cap (Blue) PTFE Liner
SCREW	
9-SC(BLK)-BST1	9mm Screw Cap (Black) Bonded Silicone/PTFE Liner
9-SC(GY)-BST1X	9mm Screw Cap (Grey) Bonded Silicone/PTFE Liner Pre-cut

Ordering

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